

Nausicaa Convention Freeboard.

Depth for freeboard: $29.25' + .06' = 29.31$

Block coefficient at 85% of moulded depth = .787.

Depth Correction $(29.31 - 25.87) \times 2.985 = + 10.27''$

Sheer Correction

	Standard	S.M.	Product.	Nausicaa	S.M.	Product.
A.P.	48.80	1	48.80	58	1	58
1/6 L from M.	21.71	4	86.84	26	4	104
2/6 L "	5.37	2	10.74	6	2	12
Amidships	-	4	-	-	4	-
2/6 L from F.P.	10.74	2	21.48	14	2	28
1/6 L "	43.43	4	173.72	51	4	204
F.P.	97.60	1	97.60	111	1	111
			439.18			517

$$\frac{(517 - 439.18)}{18} \times \left(75 - \frac{49.87}{2}\right) = - 2.16''$$

See below

Superstructure Allowance.

Part	Mean Covered length	Equivalent enclosed length	Height	Height Correction	Effective length
Poop, enclosed	106.00	106.00	7.0	$\times \frac{7.0}{7.38}$	100.53
Bridge, enclosed	27.00	27.00	7.0	$\times \frac{7.0}{7.38}$	25.61
Forecastle, equivalent enclosed	49.25	49.25	7.0	$\times \frac{7.0}{7.38}$	46.71
Overhang	11.25	5.62	"	$\times \frac{7.0}{7.38}$	5.33
Trunk {	A $133 \times \frac{30}{52.5} =$	7.60	6.0 mean	$\times \frac{6.0}{7.38}$	6.18
	B $760 \times \frac{30}{52.5} =$	43.43	5.0	$\times \frac{5.0}{7.38}$	29.42
	C $8.7 \times \frac{30}{52.5} =$	4.97	7.0	$\times \frac{7.0}{7.38}$	4.71
	193.50	243.87			218.49
Length of ship	388	388			388
Percentage	49.872	62.852			56.312

Corresponding % (Tanner Table) = 47.94%

Allowance for superstructures = $41.20 \times .4794 = 19.75''$

W 518 - 0167 (12)

Beam Correction

$$\text{Shoulder Breadth } B = 52.5'$$

$$\text{Standard round of beam} = \frac{52.5 \times 12}{50} = 12.60$$

$$\text{Actual round of beam} = 13.00$$

$$\text{Difference} = .40$$

$$\text{Allowance} = \frac{.40}{4} \times .371 = -.03$$

Tabular freeboard

Corrected for coefficient (.787)

Correction for depth

Deduction for superstructures

Deduction for excess shear

Deduction for round of beam

$$59.74''$$

$$64.44$$

$$+ 10.27$$

$$74.71$$

$$- 19.75$$

$$54.96$$

$$- 2.16$$

$$52.80$$

$$- .03$$

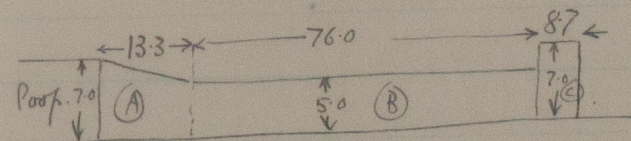
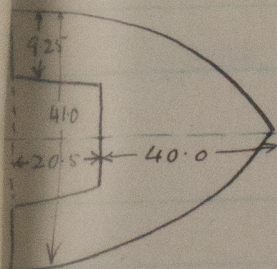
$$52.77''$$

$$\text{Summer Freeboard} = 52.77'' = 1.340 \text{ metres}$$

Calculation of superstructure allowances

castle

Trunk



$$\text{Superhouses} \frac{2 \times 20.5 \times 9.25}{41} = 9.25$$

$$\text{Closed} = 40.00$$

$$\text{Equivalent enclosed length} = 49.25$$

$$\text{Total length} = 60.50$$

$$\text{Equivalent overhang} = 11.25$$



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